KB4647O60 (KLB-520 O-08-T)

1. Descriptions

KB4647O60 (KLB-520 O-08-T) is a high bright AlInGaP orange LED and has the optimized optical characteristics.

2. Features

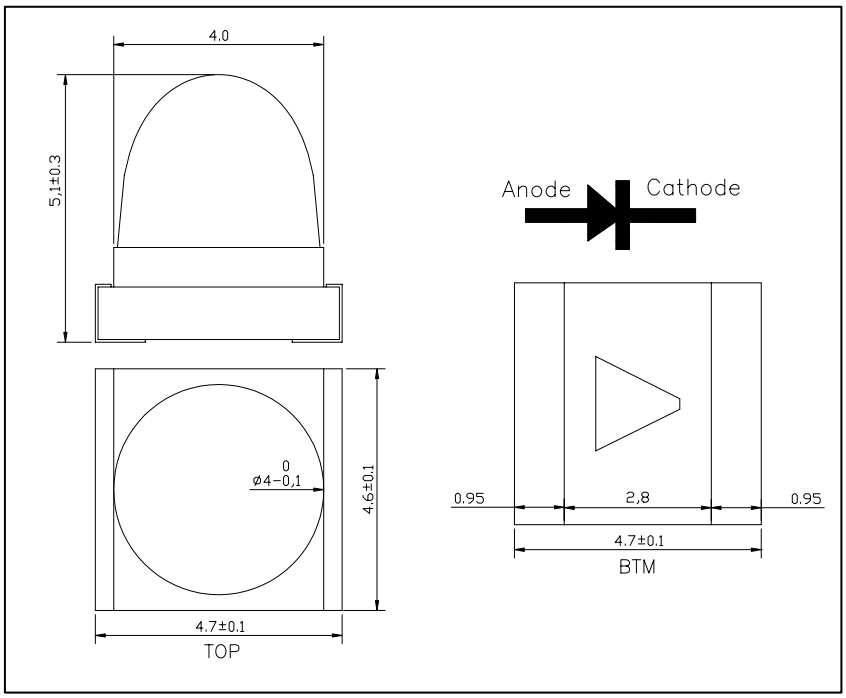
- Transparent epoxy lens
- High Optical Output
- Typical Luminous Intensity(IV)
  : 20cd for Orange @ IF=20mA

3. Application

- Display
- Indicator
- Signage
- Auto Focus
- Amusement

4. Outline Dimensions and Material Descriptions

- Outline Dimensions



The contents of this data sheet are subject to change without advance notice for the purpose of improvement.
When using this product, would you please refer to the latest specifications.

5. Absolute Maximums

Parameter	Symbol	Ratings	Unit
Reverse voltage	V_R	5	V
Forward current	I_F	80	mA
Pulse forward current *1	I_{FP}	0.3	A
Power dissipation	P_D	250	mW
Operating temperature	$T_{opr.}$	-30 ~ +85	°C
Storage temperature	$T_{stg.}$	-40 ~ +100	°C
Soldering Temperature *2	$T_{sol.}$	260	°C

*1. IFP Measured under duty £ 1/100 @ tw=10ms

*2. For MAX.5 seconds at the position of 2mm from the package

6. Electro-Optical Characteristics (T_A = 25℃)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 20 mA	1.8	2.1	2.5	V
Reverse current	I_R	V_R = 5 V	-	-	50	uA
Luminous Intensity	Iv	I_F = 20 mA	20	30	-	cd
Doninant Wave Length	λ_D	I_F = 20 mA	600	-	610	nm
Spectral half bandwidth	$\Delta\lambda$	I_F = 20 mA	-	15	-	nm
Half angle	$2\Delta\theta_{1/2}$	I_F = 20 mA	-	8	-	deg.

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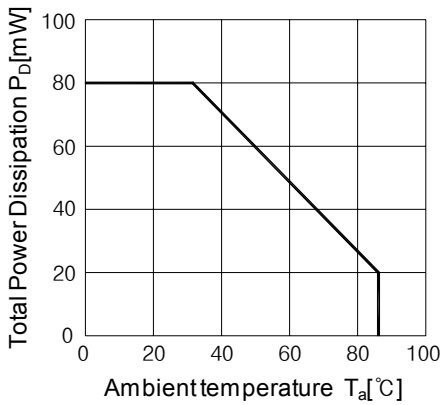
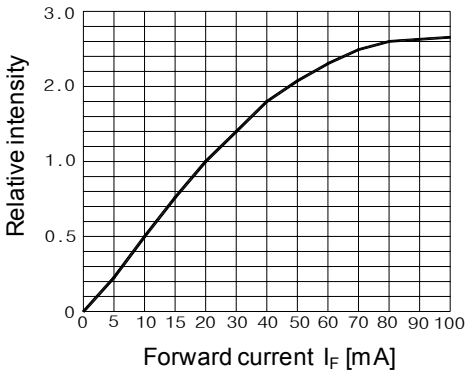
7. Characteristic Graphs

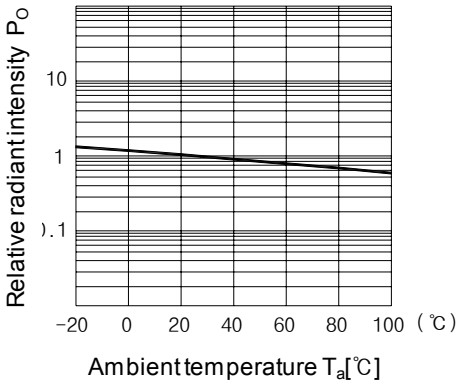
Forward current vs. Ambient temperature



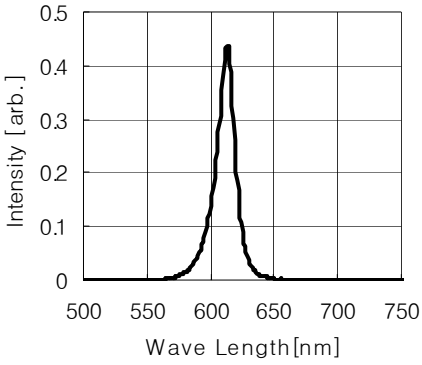
Radiant Intensity vs. Forward current



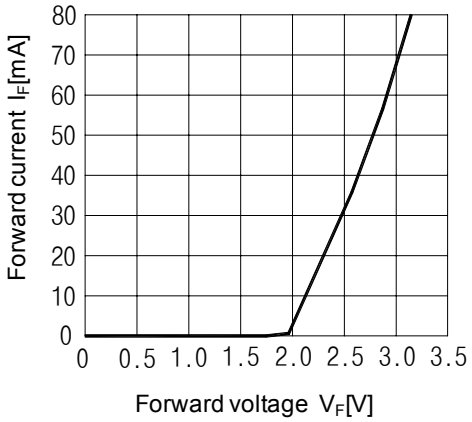
Relative radiant intensity vs. Ambient temperature



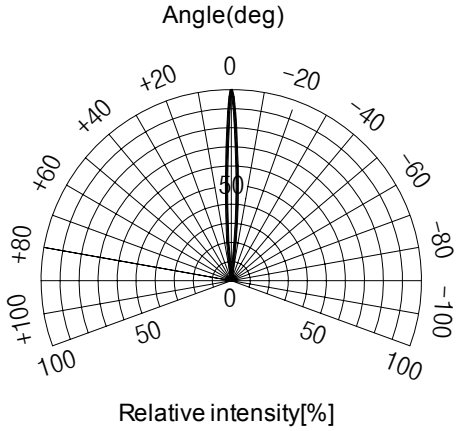
Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern



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